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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/538,474	06/07/2005	Andreas Wolfert	272974US0PCT	2264	
22850 ORI ON SPIN	22850 7590 11/20/2007 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C.			EXAMINER _	
1940 DUKE STREET			PUTTLITZ, KARL J		
ALEXANDRI	A, VA 22314	•	ART UNIT	PAPER NUMBER	
			1621		
			NOTIFICATION DATE	DELIVERY MODE	
			NOTIFICATION DATE	DELIVERT MODE	
			11/20/2007	ELECTRONIC	

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

	Application No.	Applicant(s)				
	10/538,474	WOLFERT ET AL.				
Office Action Summary	Examiner	Art Unit				
	Karl J. Puttlitz	1621				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 27	1)⊠ Responsive to communication(s) filed on <u>27 August 2007</u> .					
2a)⊠ This action is <b>FINAL</b> . 2b)□ TI	This action is <b>FINAL</b> . 2b) ☐ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)  Claim(s) 8-26 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5)  Claim(s) is/are allowed.  6)  Claim(s) 8-26 is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
<ul> <li>9) The specification is objected to by the Examiner.</li> <li>10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).</li> <li>11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.</li> </ul>						
Priority under 35 U.S.C. § 119						
12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)  All b)  Some * c)  None of:  1.  Certified copies of the priority documents have been received.  2.  Certified copies of the priority documents have been received in Application No  3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ☐ Interview Summa Paper No(s)/Mail					
2) Notice of Draftsperson's Patent Drawing Review (P10-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informa 6) Other:					

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## **DETAILED ACTION**

The objection to the specification is withdrawn in view of the amendments adding a brief description of the drawing.

The rejection under section 103 over Cooper is withdrawn since this reference fails to teach phosgenating an amine with a mixture of phosgene and hydrogen chloride.

The rejection under section 103 over Kan is maintained and repeated below.

Applicant's remarks in connection with this ground of rejection are also addressed.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 8-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. patent No. 3631092 to Kan et al., (Kan).

Kan teaches preparation of isocanyates from the phosgenation of amines. The phosgene feed comprises blends of hydrochloride and phosgene in a continuous process (column 3, lines 23+). The primary amines include 1,3-cyclohexandiamine, see column 2, lines 5+. Temperatures are given at column 3. The desired products are given at column 3, lines 60+.

With regard to the mixing times, these parameters are well within the optimization of those of ordinary skill to minimize side products.

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The difference between the process covered in the rejected claims and the process disclosed in Kan is that Kan fails to explicitly teach that the hydrogen chloride content of the phosgene feed is from 1.3% to 15% by mass. However, Kan teaches that the mole ration of hydrogen chloride to phosgene may be 1.0:3.0, see column 2, lines 36+. In this regard, the mass percentage by weight of hydrochloride contemplated by the reference includes 12-13%. Therefore, the amounts of hydrogen chloride required by the claims is well within the motivation of those of ordinary skill, based on Kan, and therefore, prima facie obvious.

Applicant argues that the phosgene/hydrogen chloride feed stream described in Kan comprises hydrogen chloride in an amount of from 11-53 wt. %, and preferably from 27-42 wt. %, which is clearly outside the claimed range of from 1.3 wt. % to less than 10 wt. % hydrogen chloride. However, Kan uses ther term "about" in connection with the ratios of hydrogen chloride to phosgene, and therefore, Applicant's upper limit of 10 wt % is close enough to the 11% taught by the reference that the recited range would be within the purview of the reference.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl J. Puttlitz whose telephone number is (571) 272-0645. The examiner can normally be reached on Monday to Friday from 9 a.m. to 5 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne Eyler, can be reached at telephone number (571) 272-0871. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Karl Puttlitz/
Karl Puttlitz
Primary Examiner
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